

546

HELIOS 1 and 2

74-097A-09A

76-003A-09A

HOURLY AVERAGED PLASMA DATA

DSC
546

HELIOS-A & B

HOURLY AVERAGE PLASMA DATA

74-097A-09A

76-003A-09A

THIS DATA HAS BEEN RESTORED. ORIGINALLY IT CONTAINED ONE 9-TRACK,
1600 BPI TAPE WRITTEN IN BINARY. THERE IS ONE RESTORED TAPE. FILE ONE
IS HELIOS-A DATA AND FILE 2 IS HELIOS-B DATA. THE DR TAPE IS A 3480
CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS
CREATED ON AN IBM 360 COMPUTER AND WAS RESTORED ON AN IBM 9021 COMPUTER.
THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIME SPAN
IS AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR005306	DS005306	D047237	1 2	12/12/74 - 12/31/80 01/17/76 - 03/07/80

REQ. AGENT
DEW

RAND NO.
V0147

ACQ. AGENT
HKH

HELIOS 1 & 2

74-097A-09A ~~0000~~

76-003A-09A ~~0000~~

HOURLY AVERAGED PLASMA DATA

This data set catalog consists of 1 data tape. The tape is 1600 BPI, 9-track, it has 2 files of data and was created on an IBM 360 computer. The D and C numbers along with the time spans are as follows:

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-47237	C-22439	FILE 1 12/12/74 - 12/31/80 HELIOS 1 FILE 2 01/17/76 - 03/08/80 HELIOS 2

76-003A-09A
POSTFACH 20
D-8411 KATLENBURG-LINDAU 8
GERMANY



MAX-PLANCK-INSTITUT FÜR AERONOMIE

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TELEFON
(05556) 411

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Rockets and Satellites
Goddard Space Flight Center, Code 601

Greenbelt, Maryland 20771

USA

BAHNSTATION
NORTHEIM
FERN SCHREIBER
09 86627 AERLI D
TELEGRAMME
AERONOMIE KATLENBURG-LINDAU
BANKKONTO
KREISSPARKASSE NORTHEIM
ZWEIGSTELLE LINDAU
NR. 41104449

IHR ZEICHEN	IHRE NACHRICHT VOM	UNSER ZEICHEN	DURCHWAHL	DATUM
		RS/sp	(05556) 41 337	Jan. 7, 1982

Dear Dr. Vette,

today I can finally send you our HELIOS plasma data. Please excuse the long delay which was caused by a series of unexpected problems.

Here are a few more details on the tape:

- 1600-BPI
- 9 tracks
- No label
- IBM binary float (single precision)
- 80 Bytes logical record length
- 8000 Bytes blocksize.

There are two files on the tape:

- file 1: HELIOS 1 from 74 : 346 to 80 : 366
- file 2: HELIOS 2 from 76 : 17 to 80 : 068

All data are 1 hour averages. The time tag on the tape refers to the begin of the averaging interval. The orbit data refer to the time of the first measurement within the averaging interval.

The data words have the following meaning

- 1 year ("+" for HELIOS 1, "-1" for HELIOS 2)
- 2 day
- 3 hour begin of averaging interval (in GMT)
- 4 angle earth-sun-HELIOS (in degrees)

MAX-PLANCK-INSTITUT FÜR AERONOMIE

ZUM SCHREIBEN AN: Dr. J.I. Vette, World Data Center A, GSFC, Greenbelt,

BLATT: 2

Jan. 7, 1982

- 5 distance sun-HELIOS (in AU)
- 6 Carrington longitude of HELIOS (in degrees)
- 7 Solar-ecliptical latitude of HELIOS (in degrees)
- 8 Number of Carrington rotation
- 9 proton bulk speed (in km s^{-1})
- 10 proton temperature, radial component (in K)
- 11 proton density (in cm^{-3})
- 12 proton flow angle in elevation (in degrees)
 "+" means northward flow
- 13 proton flow angle in azimuth (in degrees)
 "+" means eastward flow
- 14 Standard deviation of word 9
- 15 " " " " 10
- 16 " " " " 11
- 17 " " " " 12
- 18 " " " " 13
- 19 Number of measurements used for word 9, 10, 11
- 20 " " " " word 12, 13.

For your convenience I include a little printout showing the content of the first and the last data block for both files.

Note that words 19 and 20 need not be identical, since the flow angles cannot always be determined. This occurs mainly for large values of these angles, since the 3D data transmission is limited, especially at low telemetry bitrates.

Further information on our instruments and on data evaluation can be found in some articles (e.g. Schwenn et al., Raumfahrtforschung 19, 226, 1975 and Rosenbauer et al., J. Geophys. 42, 561, 1977) or can be obtained directly from us.

In case of any problems with the tape, the data on it or anything else please contact us anytime.

Yours truly

Rainer Schwenn

(Dr. Rainer Schwenn)

Enclosures

cc: Dr. Rosenbauer, MPAe
Dr. Porsche, DFVLR
K.H. Mühlhäuser, MPE

```

FILE I.R.: 1 READ TEST RECL= 80
    546.000000 1.00000000
    630.413574 132143.937
    .0          .0
    0          0
ANZAHL DER ULOECKE: 42554
    366.000000 21.000000
    394.121582 46545.0896
    1705.00060 1.31405176
    11745.6680 1.44150352
    .0          1.00011864
*** FILE OF FILE ***

```

```

FILE I.R.: 2 READ TEST RECL= 80
    17.0000000 2.00000000
    385.460937 73293.5625
    .0          .8502233030-01
    2416.04614 .256699860
    680.000000 16.0000000
    1692.00000 361.861572
    22442.5664 .318320572
    .0          2.54090118
ANZAHL DER ULOECKE: 26578
    68.000000 70208.8125
    .0          1.07395554
    0          39.000000
*** FILE OF FILE ***

```

```

    984511554 188.001953
    4.67009735 2.63317585
    .0          1.00000000
    0          1.00000000
    589824021 66.2575836
    12.5732660 -3.40109730
    1.44150352 1.86104406
    1.00011864 37.0000000

```

```

    983245969 295.915039
    4.41342735 -2.77574253
    1.36264896 7.00000000
    .0          3.00000000
    918480098 -3.83339787
    4.62856293 -39.0000000
    1.07395554 30.0000000

```

```

    983245969 295.915039
    4.41342735 -2.77574253
    1.36264896 7.00000000
    .0          3.00000000
    918480098 -3.83339787
    4.62856293 -39.0000000
    1.07395554 30.0000000

```

```

    983245969 295.915039
    4.41342735 -2.77574253
    1.36264896 7.00000000
    .0          3.00000000
    918480098 -3.83339787
    4.62856293 -39.0000000
    1.07395554 30.0000000

```

047237

Helios 1+2

F1 11/11/80 - 12/30/80

F2

DUMP OF TAPE 001

INPUT TAPE	DATA INPUT	001	ON	HT2	/A	1 LENGTH	00 BYTES
FILE 1 RECORD							
(0)	424A00000	435A000	41100000	431676F5	40FC9FF3	426C90A1	C0936454 436550000 4327659E 45242FF
(40)	414AHUBA	41125E53	412A217D	000200000	00000000	00000000	41100000 41100000 41100000
(80)	424A00000	4315A000	41200000	431676B8	40FC97FA	42B94A60	C0946657 436550000 43250405 4534CD0E
(120)	414F9238	C112366E	C112366E	413A02CE	446630EE	4620E699	469CFE77 41104499 41100000 41100000
(160)	424A00000	4315A0000	4315A0000	431676AF	40FC97E5	42841762	C0940481 436550000 43230D30 452E767A
(200)	415011FE	C0366E77	C11C5225	411813A3	446621AD	454F68D5	4115C47A 4117HF9F 422E0000 422E0000
(240)	424A00000	4315A000	41500000	43167625	40FC95AD	4220000D	C09713101 436550000 4326350C 45271726
(280)	4135AA41	4022F3E4	40756912	4165F5E2	449C2174	4435E354	40CFE438 40FA2122 42270000 42270000
(320)	424A00000	4315A000	41600000	43167608	40FC0508	42H94478	C097BF5B 436550000 432777E0 4531D055
(360)	413A56E5	402413F5E	C0117191	418B6426	44A23A32	46434D6E	40FF1145 41136064 42541600 42540000
(400)	424A00000	4315AU00	41700000	43167504	40FC0433	42B6624A	C096A24A 436550000 4325605E0 45360000
(440)	4141616B	4111CU00	40EBAB739	41A4B9DF	44764C85	403F82C4	41119562 42500000 42500000 42500000
(480)	424A00000	4315A000	41800000	431675E7	40FC03E1	42E32662	C099C2A2 43695000 4325FD6E 4535EF13
(520)	413E196A	411230E3	C0530F2F	414900064	443A6001	4437214F	40FB2139 40F5ECC 42560000 42560000
(560)	424A00000	4315AU00	41900000	431675E7	40FC0290	4287ABA8	C0944AD0 436550000 43257A85 4531C0F7
(600)	413E173	40FAFD02	403A5F746	417265D9	446253D9	453CE5A	40C11D04 40511 423CH000
(640)	424A00000	4315AU00	41A00000	4316752F	40FC916A	4286F5C4	C0966CF3 436550000 4324E506 4533ED65
(680)	414C61B5	C07571C4	C05C2A75	414C3262	4455D233	4076A072	41163066 40F68F3 421F0000 421F0000
(720)	424A00000	4315A000	41800000	431674FA	40FC009C	42667E77	C09C341C 436550000 432626C9 453210E3
(760)	4148D51A	C0F18F36	4213491F	44A4A980	4458E328	41198E06	4114E506 42560000 42580000
(800)	424A00000	4315AU00	41000000	431674C3	40FFBF4A5	42B8E858	C09D1AB52 436550000 4325F511 42590000
(840)	41442975	40DAAB95	C11A8916	4167C11B	4460B601	4039453E	4113A41A 42590000 42590000
(880)	424A00000	4315AU000	41000000	4316748D	40FFBF4E6	42B855C7B	C19DF9C5 436550000 4329277E 453225A1
(920)	4142212D	40536EE5	C1101957	41422C7B	446A980D	404563CE	41109E00 411040DE 424F0000 424F0000
(960)	424A00000	4315AU000	41000000	43167456	40FFBF4E5	42B4C78B	C09E4E49 436550000 43295443 45310F40
(100)	41372F61	C0752ACC	C0F0596	41AA76E8	446A800D	4043C3C1	411149A05 41102A34 42570000 4256B000
(104)	424A00000	4315AU000	41F00000	4316741F	40FBFC6	42B64322	C09F4C94 436550000 43293380 452E8900
(1080)	41354E88C	C113CE87	C113CE87	41A3209E	4447300C	45313HE9	4117E0382 40C698BA 42580000 42530000
(1120)	424A00000	4315AU000	42100000	431673EY	40FBFB52	42B32A9FA	C0A0ADF3 436550000 43290A37 452F9FCC
(1160)	412FAE2C	C1315FD4	C11885B5	411E2E7AE	445A8A91	4031FF42	411660009 411662FF 42590000 42590000
(1200)	424A00000	4315AU000	42100000	43167332	40FBFAAF	42831036	C0A18E68 436550000 43241ACE 45392C9F
(1240)	4131A910	411021FC	C121CB51	41192694	44603538	40380D37	4116840D 42510000 42510000
(1280)	424A00000	4315AU000	42120000	4316737C	40FBF9296	42B28E35	C0A27C02A 436550000 432848E8 452CF327
(1320)	412F0368	C0EC63D6	C117DFF2	41A2E43A	44545S33	402C23AAD	411329A7 41167842 42530000 42530000
(1360)	424A00000	4315AU000	42130000	43167345	40FBFB87	42B1104A	C0A35EE1 436550000 4327AB30 45211676
(1400)	412B0073	C112F167	C033AABE	417E379D	44371E59	402906C6	40AC0424 40901A92 42580000 42580000
(1440)	424A00000	4315AU000	42140000	43167400	40FBFF76F	42ADCD90	C0AA05E9 436550000 4327E3C0 451FE0BD
(1480)	41287D7E	C1107956	40502B6F	418E1C31	44378AC4	402C2B2F	40A5487F 40B1DD09 42590000 42590000
(1520)	424A00000	4315AU000	42150000	431672D8	40FBFB8E	42B1104A	C0A4035E 436550000 43281449 45237030
(1560)	412AC1F8	4058EA47	C019B911	41801936	4481DC5	402959F9	407C26BB 40710F3 42160000 42160000
(1600)	424A00000	4315AU000	42120000	43167198	40FBFFEF3	42A016AE	C0A414C1 436550000 432645AC 45346626
(1640)	4123A810	4123E89D	C1451229	41232228	443E7060	40363535	C0A27C02A 436550000 432848E8 452CF327
(1680)	424A00000	4315AU000	42130000	4316718F	40FBFB7B	42A2027F	C0A464C9 436550000 43281449 453C88B3
(1720)	413749D4	411DDEAD	C12C6392	4137C3F5	444A77E3	402A027F	406500A4 40642166 4215E000 4215E000
(1760)	424A00000	4315AU000	42150000	4316708A	40FBEB5	42A302A5	C0AE78E4 436550000 4324D99D 452BAD0E
(1800)	4158AC23	C121A43B	401F9349	4182D4C9	4443D754	403C8473	4111E8C6 40A74576 41900000 41900000
(1840)	424A00000	4315BU00	41800000	4316707F	40FBF8DC	42AA590	C0AFCDD0 436550000 43246047 452CF0C12
(1880)	4155B074	4115B074	4115B074	410FFC8B6	4460B978	40615652	4111CCCC12 41154694 42310000 42310000
(1920)	424A00000	4315AU000	41900000	4316704A	40FBFB79A	42A1D71	C0AEE635 436550000 4327074 452DFBEA
(1960)	4151A23B	405E72EA	C02F5C4	4123E89D	444E4E4H	405DA27D	4121B2BC 41170B41 42590000 42590000
(2000)	424A00000	4315AU000	42100000	431633303	444E4E4H	405F26F0	405F26F0 405F26F0 41760000 41760000
(2040)	414FBED5	405DA1E3	C13147C1	41E6B649	44602231	406FC22C	41150336 41104F0D 42590000 42590000
(2080)	424A00000	4315AU000	42180000	43166FDD	40FBF40D	42A0F2AB2	C0B18728 436550000 4328B222 452AC22E
(2120)	415445A9	403D4261	C035F52E	41506FDD	445B55E	405160F3	41160000 41160000 41160000 41160000
(2160)	424A00000	4315BU00	41C00000	43166FA7	40FBF382	42A86D89	C0B2982A 436550000 4322FDEC 4529E000
(2200)	415253FA	C0296CAE	3F223BFA	41C2D3E9	4459ACDE	404B0640	41107F7 411763F9 42500000 42500000
(2240)	424A00000	4315BU00	41D00000	43166F70	40FBEB21B	42A7DDC3	C0837D42 436550000 43242424 452FB13
(2280)	414E0322	4UDCn43A	C124E94C	421C34C	444E633E	40744E0D	4113D62 411013FC 4256769C 4256769C

(2320)	424A0000	4315B000	41E00000	43166F35	40FBED00	42A747C7	C0B46C2C	43655000	43279F4F	4546123C
(2360)	4148F349	41246002	C1103462	42177B14	4470AEACE	4117EF1C1	411732ED	42529000	42529000	42529000
(2400)	424A0000	4315H600	41F00000	43166F63	40FBED00	42A654H0	43655000	43279F4F	4546123C	4546123C
(2440)	41473402	4115C57D	C1252B72	4214e093	446E5FAB	404000FC	41235E1U	4119eF16	42529000	42529000
(2480)	424A0003	4315B000	421J0C00	43166EC0	40FBDDCC	42A62E50	43655000	43262C9	4546123C	4546123C
(2520)	413C3E36	41113055	C11e72FC	41B1o13r	44CFE04A	4115A706	411CbbAD	42529000	42529000	42529000
(2600)	424A0000	4315B000	4211C090	43166E96	40FEDC5D	42A5A262	43655000	432A163C	453CA9E5	453CA9E5
(2600)	424A0000	4315B000	4120C2C6	43166CA5F	4464EA16	42A51120	41200F7A1	411732D0	42529000	42529000
(2640)	424A0000	4315B000	42120000	43166C05	40FEDADC	42A51120	41207F325	43655000	43262C9	4546123C
(2680)	413986AA	41260547	C12702U5	421ab5F4	446F16FD	42502913	4126834E	411EfE3A	424F0000	424F0000
(2720)	424A0000	4315B000	42130000	43166E29	40FB0953	42A47EEC	4080DC20	43655000	432B4EA9	4546123C
(2760)	413b5E5C	408DBD1F	C13D610B	41F0U670	4489b005	40386774	41232176	41244312	42529000	42529000
(2800)	424A0000	4315B000	4120C000	43166D5	40FB0703	42A1C000	40321765	43261765	4535002E	4535002E
(2840)	41371BC4	411F789C	C1241403	42179709	446A2C36	4032F0D8C	411666E1	41279700	42546000	42546000
(2880)	424A0000	4315B000	42150000	43166DBC	40FB06B2	42A3883E	C0BA64DF	43655000	4329D57A	45303348
(2920)	4135E7FC	C04C478D	C1466369	4186FD6D	44532B1C	40309CF9	48BCF3B7	411BD631	42220000	42220000
(2960)	424A0000	4315B000	42160000	43166D6D	40FB0498	42A2C7C8	C0B89b81	43655000	432A649F	452CE048
(3000)	4135A829	4085131F	C1521329	4182C4D2	443234C7	40263A4	40FACF72	40F47C0D	42140000	42140000
(3040)	424A0000	4315C000	41100000	43166C00	40FB007	42A120C15	40FB007	43655000	43299995	45246E672
(3080)	412D07A1	4098D969	C46D9FEB	41A4CFe1	4439110F	40201015	41122456	40847F96	42330000	42330000
(3120)	424A0000	4315C000	41200000	43166C91	40FBCE09	42A07D53	C0BF3F2E	43655000	4329466F	45109FB7
(3160)	412E5DE5	C0ECA2E4	C028F1A9	4172931E	44211402	402136F2	4071C139	406F4665	42160000	42160000
(3200)	424A0000	4315C000	41300000	43166C75	40FBCC46	42A004BB	C0BFFFFF	43655000	432A446D	451C2E4
(3240)	4128F7AD	C110E21C	COA5ADA	42132393	444B75D1	4030CD2B	40A99629	41104267	42374000	42374000
(3280)	424A0000	4315C000	41400000	43166C39	40FB5FC	42975E24	C0C0345	43655000	432861A5	4519c803
(3320)	4128C2EA	C0x3D804	4936C4C8	421EcC05	44317FC6	40299403	41141FDF	40BF5D50	421fE000	421tE000
(3360)	424A0000	4315C000	41500000	43166C07	40FBcC931	429E0092	C0C1D6CD	43655009	43261379	451AE5A7
(3400)	412C62A7	C03CD418	C110EB9A	41A7CDDA	44317CDDA	403801C3	411AA058	4117147E	421Cu300	421Cu300
(3440)	424A0000	4315C000	41600000	43166D3	40FBcC931	429E5B85	43655600	432540C6	4519A9CF	4519A9CF
(3480)	412DB492	C06259F	C117F549	412AfU69	4435C178	4025945D	40893F3B	4111920E	42179000	42179000
(3520)	424A0000	4315C000	41700000	43166R78	40FBcC543	4240949B	C0C3E1E3	43655000	4324D900	451A4FC7
(3560)	412044EA	41124361	C0DA4F12	41575AEE	444u1718	402EEB04	411A0131	4099496F	42100000	42100000
(3600)	424A0000	4315C000	41800000	43166E66	40FEC4U	42Y031AA	C0C8057	43655000	432465E6	451A528
(3640)	412B1A8C	4044AB04	C11CEC2	41415143	443C1F16	402F6942	41112475	4113F6C	424E0000	424E0000
(3680)	424A0000	4315C000	41900000	43166H30	40FBcC70	4294b06D	C0C55304	43655000	43240000	43240000
(3720)	41263945	C051FAC6	C0Ew15D7	41bU52D6	446D3E2E	4044bECC	4113F064	411216A9	423F6000	423F6000
(3760)	424A0000	4315C000	41A00000	43166AF8	40FBcC07	429C1333	C0C64661	43655000	4323n481	45150A02
(3800)	4120E826	4115D64A	C0567C11	41659545	44962A5D	4040065E	40422350	406795A	42276000	42276000
(3840)	424A0000	4315C000	41800000	43166AC2	414103DB	4465BE9C	429379DC	C0C73DC2	43655000	432287A2
(3880)	4123212A	4110C09A	C094057	4148SH3D	445E5F7	4121b653	40787873C	40995A0A	40A23D0A	424E0000
(3920)	424A0000	4315C000	41C00000	43166A8D	40FH85CE	4294F5b3	C0C1092	43655000	43236365	451692E0
(3960)	4123AE83	40777E87	C1129242	41434445	44550D80	4022D9E8	407FABDF	40DA2CDE	42550000	42550000
(4000)	424A0000	4315C000	41D00000	43166A56	40FB8H14	429A644E	C0C8F763	43655000	43227000	451C6412
(4040)	41200	4123A8CC	4115461	C1203E83	4140A3DB	44628F82	4026EEF0	40995A0A	40A23D0A	424E0000
(4080)	424A0000	4315C000	41E00000	43166A20	40FB8935	42927FF3D	C0C9DF6	43655000	432226D7	45223929
(4120)	4123F593	4129A828	C012A8C8	413A3352	44633363	40312GFD	40DF115D	40DD7071	42550000	42550000
(4160)	424A0000	4315C000	41F00000	431669EA	40FB8756	42994359	C0CAC467	43655001	43233448	45130E9C
(4200)	41255A63	412D649A	403A435A	414650D5	4457C9E	40257811	411075D6	4093D0CF	42590000	4252118B8
(4240)	424A0000	4315C000	42100000	431669B3	40FB8520	42989B48	C0CRCFFC	43655000	4321E6D8	45119C0D
(4280)	412B3E36	41247F49	406FE954	41382600	44474TA3	403E5C14	40FEAD47	4086BCF6	42160000	42160000
(4320)	424A0000	4315C000	42110000	43166970	40FB8397	42982789	C0C8466	43655000	4323434	451A5595
(4360)	424A0000	4315C000	42120000	43166AA2D	4045F929	4034763C	40DC650T	40DC650T	424E0000	424E0000
(4400)	424A0000	4315C000	42127024	41366FCD1	4470AEF3	40284F50	C0C6333	43655000	43267F08	452118B8
(4440)	41253FFC	4116CFB5	C0666C2E	418DE55E	4466A349A	402399FC5	40CEAE3F	40CEAE3F	42460000	424E0000
(4480)	424A0000	4315C000	42130000	43166909	40FBAD3	4296FB99	C0CE6676	43655000	432007E9	451846C7
(4520)	41243A6D	411030B7	C0D05172	4128356C	443AD06	4027FF3D	40706A3	405C3CA8	424B0000	424b0000
(4560)	424A0000	4315C000	42140000	4316693A	40FBAD3	42975BB	C0CF3C7H	43655000	4315F197	4515FEEA7
(4600)	412BAAACB	40885FD2	4075F756	414F2A28	442EBFB5	404EF918	4079Ca36	4082D546	42570000	42570000
(4640)	424A0000	4315C000	42150000	431668A4	40FBHAC37	4296D93E	C0CFEB4	43655000	4320F958	4514EADR
(4680)	412taF6D	41154E30	4110DEB7B	4140DDE6B	4447CE35	4035F6ECC	40C7F6D9	40D93b54	42246000	42246000
(4720)	424A0000	4315D000	40000C00	431667CF	40FB84C5	4293394	C0D3394	43655000	43213BD4	44F10268
(4760)	4133A1FE	41227024	41366FCD1	41366FCD1	404410F3	4030D0C6	4030D0C6	4030D0C6	41600000	41600000
(4800)	424A0000	4315D000	41100000	431667CB	40FB839D	42989A48	C0D3B42F	43655000	43200365	451223B8
(4840)	41314A25	4119D0C7	C0359187	42111889	442E7631	4061943F	4088XAD7	40E5705A	42560000	42560000
(4880)	424A0000	4315D000	41200000	43166794	40FB818D	42931601	C0D49CA8	43655000	431F82B6	4512A9D2
(4920)	4120D351	40E2CF6F	C02204FA	4163C7FD	4439269E	40386CA6	408HD333	42530000	42530000	42530000